ABSTRACT OF THE DISCLOSURE

~~In a data transmission/reception apparatus 11, a data transfer is performed by a pipeline technique between N processing sections Pd_1 to Pd_N. The~~ A data transmission/reception apparatus for performing a data transfer by a pipeline technique between N processing sections including ~~11 includes (N-1) or more~~ intermediary sections. ~~21, each having~~ Each intermediary section includes a transmission/reception control section ~~23~~ for controlling data transmission/reception, and a buffer ~~27~~. The intermediary sections ~~21~~ interconnect adjoining first and second data processing sections ~~Pd_1 and Pd_2~~ to allow data obtained through the data process performed by the first data processing section ~~Pd_1~~ to be transmitted to the second data processing section. A transmission API ~~35a~~ in the first data processing section ~~Pd_1~~ transmits data to the second data processing section ~~Pd_2. A~~ and a reception API ~~37b~~ in the second data processing section ~~Pd_2~~ receives the data transmitted from the second data processing section ~~Pd_2~~.